

Work Order ID 98352***98352***

Page 1

March-12-13 1:48:09 PM

Item ID: D3183-043

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Bracket Assembly

Stop

NS2

Start Date: 3/11/13

Start Qty: 4.00

4

Required Date: 3/29/13

Req'd Qty: 4.00

4

Cust Item ID:

Customer:

Reference:

Approvals: Process Plan: MLJDate: 13-03-14

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
100 *100* Bandsaw Jeaspa Bandsaw	BAND SAW Memo Cut blanks: (1.500" x 2.250") 5.500" long	0.00							<u>AT 13-03-26</u> <u>x6</u>
110 *110* HAAS 1 HAAS CNC vertical machine #1	HAAS CNC VERTICAL MACHINING #1 Memo 1-Machine D3183-3 as per Folio FA322 and Dwg D3183 Identify as D3183-32-Deburr3-Scribe batch number	0.00							<u>ofc/ba 2013-03-28</u>
120 *120* QC Quality Control	QC2- Inspect parts off machine FAI/FAIB Memo	0.00							<u>ofc/ba 2013-03-28</u>

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS															
			Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Use-as-is <input type="checkbox"/>	Work Order Update <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Machining <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Finishing <input type="checkbox"/>	Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/>	Quality <input type="checkbox"/>	Other <input type="checkbox"/>
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description			Sign & Date	Verification		QC Inspector								
Doc/Data <input type="checkbox"/>																					
Equip/Tooling <input type="checkbox"/>																					
Operator <input type="checkbox"/>																					
Material <input type="checkbox"/>																					
Setup <input type="checkbox"/>																					
Other <input type="checkbox"/>																					
Process <input type="checkbox"/>																					
Supplier <input type="checkbox"/>																					
Training <input type="checkbox"/>																					
Unapproved <input type="checkbox"/>																					
FAULT CATEGORY																					
Landing Gear				General																	
<input type="checkbox"/> <input type="checkbox"/>	Bending <input type="checkbox"/>	Bend <input type="checkbox"/>	Grain <input type="checkbox"/>	Ovalized <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>																
	Centre Not Concentric to O/S <input type="checkbox"/>	BOM/Route <input type="checkbox"/>	Hardware <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>																
	Cracks <input type="checkbox"/>	Broken/Damaged <input type="checkbox"/>	Inspection Incomplete <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Weld <input type="checkbox"/>																
	Crushed/Crimped. <input type="checkbox"/>	Burrs <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>																
	Cuffs <input type="checkbox"/>	Contamination <input type="checkbox"/>	Maintenance <input type="checkbox"/>	Part Moved <input type="checkbox"/>																	
	Heat Treat <input type="checkbox"/>	Countersink <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>																	
	Inspection Strip in Tube <input type="checkbox"/>	Cut Too Short <input type="checkbox"/>	Misread <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>	Other <input type="checkbox"/>																
	Ripples in Bend <input type="checkbox"/>	Drill Holes <input type="checkbox"/>	Offset <input type="checkbox"/>																		
	Torque Waves in Extrusion <input type="checkbox"/>	Drawing <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>																		
	Turning Sequence <input type="checkbox"/>	Finish <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>																		
	Wave/Twist in Tube <input type="checkbox"/>	Folio <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>																		

Work Order ID 98352***98352***

Page 2

March-12-13 1:48:09 PM

Item ID: D3183-043

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Bracket Assembly

Stop

NS2

Start Date: 3/11/13 Start Qty: 4.00

4

Cust Item ID:

Required Date: 3/29/13 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC8- Inspect parts - second check

0.00

130

QC

Quality Control

6 SL13-3-31

140

140

Small Fab

Small Fab

0.00

6x B13/01/13

Small Fab

Memo

0.00

Assemble D3183-043 as per Dwg D3183.

150

150

QC

QC5- Inspect part completeness to step on W/O

0.00

Quality Control

Memo

0.00

DAS
27
B-43

6

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS																																						
			Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Use-as-is <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Machining <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Finishing <input type="checkbox"/>	Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/>	Quality <input type="checkbox"/>	Other <input type="checkbox"/>																								
Root Cause		Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification		QC Inspector																															
Doc/Data																																												
Equip/Tooling																																												
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Unapproved																																												
FAULT CATEGORY																																												
Landing Gear					General																																							
					Bending <input type="checkbox"/>	Centre Not Concentric to O/S <input type="checkbox"/>	Cracks <input type="checkbox"/>	Crushed/Crimped <input type="checkbox"/>	Cuffs <input type="checkbox"/>	Heat Treat <input type="checkbox"/>	Inspection Strip in Tube <input type="checkbox"/>	Ripples in Bend <input type="checkbox"/>	Torque Waves in Extrusion <input type="checkbox"/>	Turning Sequence <input type="checkbox"/>	Wave/Twist in Tube <input type="checkbox"/>	Bend <input type="checkbox"/>	BOM/Route <input type="checkbox"/>	Broken/Damaged <input type="checkbox"/>	Burrs <input type="checkbox"/>	Contamination <input type="checkbox"/>	Countersink <input type="checkbox"/>	Cut Too Short <input type="checkbox"/>	Drill Holes <input type="checkbox"/>	Drawing <input type="checkbox"/>	Finish <input type="checkbox"/>	Folio <input type="checkbox"/>	Grain <input type="checkbox"/>	Hardware <input type="checkbox"/>	Inspection Incomplete <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Maintenance <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Misread <input type="checkbox"/>	Offset <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>	Ovalized <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Part Moved <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>

Work Order ID 98352

March-12-13 1:48:09 PM

98352

Page 3

Item ID: D3183-043

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Bracket Assembly

Stop

NS2

Start Date: 3/11/13 Start Qty: 4.00

4

Cust Item ID:

Required Date: 3/29/13 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

160

Identify as per dwg & Stock Location:

0.00

160

Packaging

Packaging

Memo

SP 36B

0.00

4/3/14/6

170

QC21- Final Inspection - Work Order Release

0.00

170

QC

Quality Control

Memo

0.00

4/3/14/7

RB-04/1

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS										
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other									
Root Cause		Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector				
Doc/Data																
Equip/Tooling																
Operator																
Material																
Setup																
Other																
Process																
Supplier																
Training																
Unapproved																
FAULT CATEGORY																
Landing Gear				General												
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions									<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other			

Picklist Print

March-12-13 1:48:08 PM

Page 1

Work Order ID: 98352

Parent Item: D3183-043

Start Date: 3/11/13

Required Date: 3/29/13

Parent Item Name: Bracket Assembly

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP Rev:Pick:A04.02.18New issueKJ/DS

IPP Rev:B Changed Mat Size 08-06-26 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3121-21 Bolt		Manufactured	No			140	Each	43.0000	2	8	63	03/03/03	

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST235	34	
79732	4	
85660	1	
89495	1	
89961	8	
97448	20	
ST235B	9	

D3183-045	Manufactured	No	100	Each	8.0000	2	8	13/04/03
Bearing Assembly								
	<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>			
	FG		5					
	88587		5					
	ST235B		3					
	97336		1					
	98025		2					

M174B1.500X02.250	Purchased	No	140	f	14.9704	0.4583	1.9296844
17-4 SS Bar 1.50 X2.250				<i>x2.78</i>			<i>41 13-0326</i>
		<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>		
		MAT049		14.9704			
		113568		1.9037			
		115806		0.4			
		124158		12.6667			<i>x2.78</i>

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

DART AEROSPACE LTD		Work Order:	98352
Description: Bracket		Part Number:	D3183-3
Inspection Dwg: D3183	Rev: C1		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

First Article Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
R0.190	+/-0.030	R0.190	✓		Rad G	OFc
R0.063	+/-0.010	R0.063	✓		"	OFc
0.182	+/-0.010	0.1805	✓		Cal	OFc-01
0.070	+/-0.010	0.070	✓		"	"
0.100	+/-0.010	0.100	✓		"	"
Ø0.201 x 0.100	+/-0.010	0.194x0.1	✓		"	"
0.182	+/-0.010	0.1805	✓		"	"
5.32	+/-0.030	5.327	✓		"	"
5.036	+/-0.010	5.038	✓		"	"
2.120	+/-0.010	2.118	✓		"	"
1.290	+/-0.010	1.288	✓		"	"
0.365	+/-0.010	0.364	✓		"	"
0.218	+/-0.010	0.214	✓		"	"
1.030	+/-0.010	1.030	✓		"	"
1.90	+/-0.030	1.888	✓		"	"
1.012	+/-0.010	1.015	✓		HG	31001
Ø0.201 x 0.100	+/-0.010	0.192x0.1	✓		CPL	JFC-01
0.786	+/-0.010	0.779	✓		"	"
Ø0.392	+0.002/-0.000	0.393	✓		HIC	OFc-02
R0.19	+/-0.030	R0.190	✓		Rad G	OFc
3.954	+/-0.010	3.954	✓		Rad HG	OFc-01 31001
0.162	+/-0.010	0.164	✓		CAL	OFc-01
R0.19	+/-0.030	R0.190	✓		Rad G	OFc
R0.25	+/-0.030	R0.25	✓		Cal	"
4.26	+/-0.030	4.266	✓		Caliper	JFC-01
2.080	+/-0.030	2.08	✓		"	"
1.155	+/-0.010	1.155	✓		"	"
0.162	+/-0.010	0.162	✓		"	"
0.36	+/-0.030	0.36	✓		"	"
0.615	+/-0.010	0.615	✓		"	"
0.435	+/-0.010	0.430	✓		"	"
0.200	+/-0.010	0.199	✓		"	"
0.381	+/-0.010	0.378	✓		"	"
0.032	+/-0.010	0.029	✓		depth	PHD-09

Measured by:	JFC b.e	Audited by:	SL	Prototype Approval:	N/A
Date:	2013-03-28	Date:	13-3-3	Date:	N/A

Rev	Date	Change	Revised by	Approved
A	03.11.12	New Issue	P/O D3183-043	KJ/RF
B	04.03.15	Changes as per revision C	KJ/JLM/RF	
C	06.03.09	Dwg Rev update	KJ/JLM	
D	08.01.28	0.182 dimension removed	KJEC/DD	BB

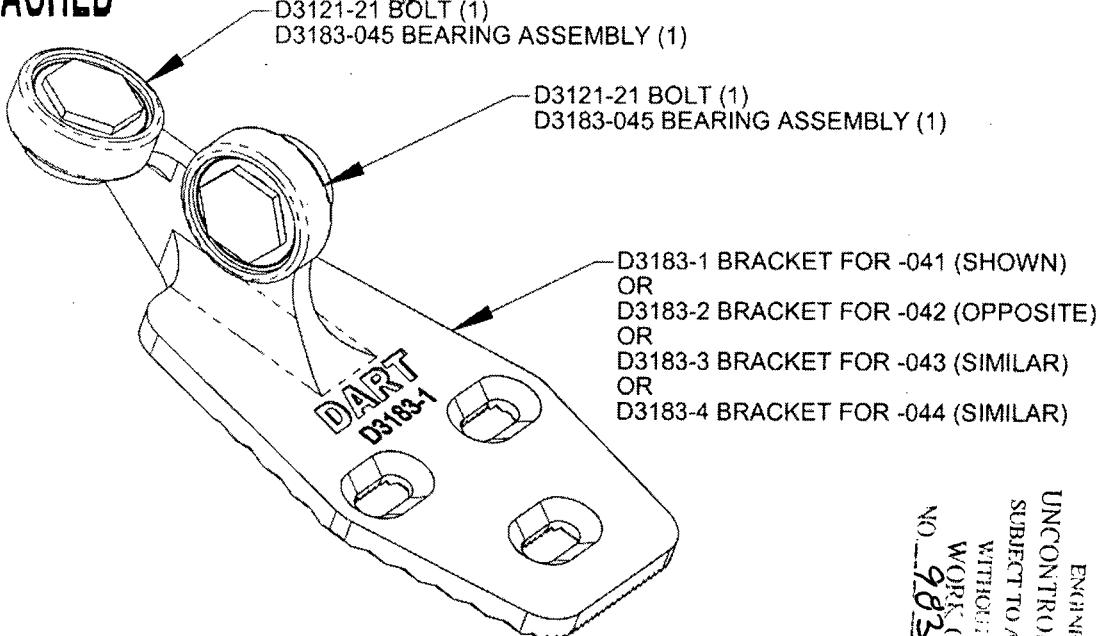


DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. C
		D3183	SHEET 1 OF 4

DATE 04.02.17 TITLE BRACKET ASSEMBLY SCALE 1:1

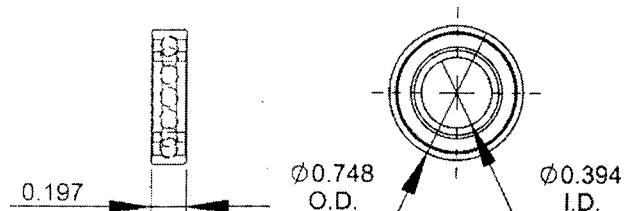
RELEASED
04.03.01

DEO ATTACHED



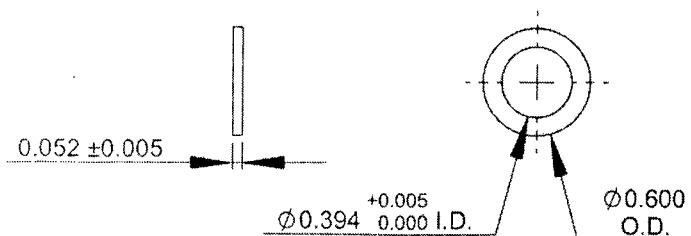
D3183-041 BRACKET ASSEMBLY (SHOWN)
D3183-042 BRACKET ASSEMBLY (OPPOSITE)
D3183-043 BRACKET ASSEMBLY (SIMILAR)
D3183-044 BRACKET ASSEMBLY (SIMILAR)

SHOP DRAWING
P/T, R/T
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK CENTER NO. 98352
13-03-14



D3183-5 BEARING: SPECIFICATION CONTROL DRAWING

- 1) SINGLE ROW, DEEP GROOVE, CONRAD TYPE, SHIELDED
- 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES



D3183-7 WASHER

- 1) MATERIAL: AISI 303 ROUND BAR (M303R) ANNEALED
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES

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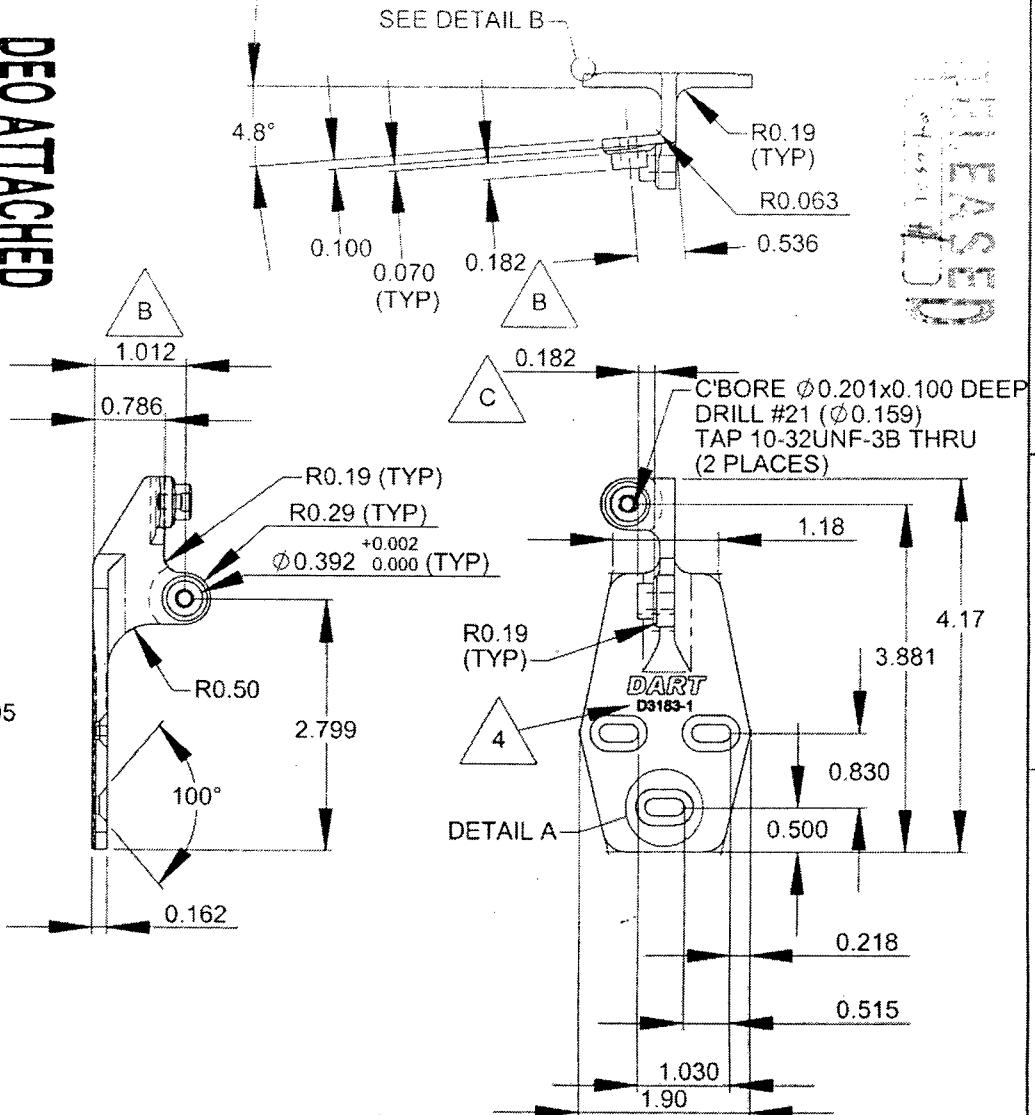
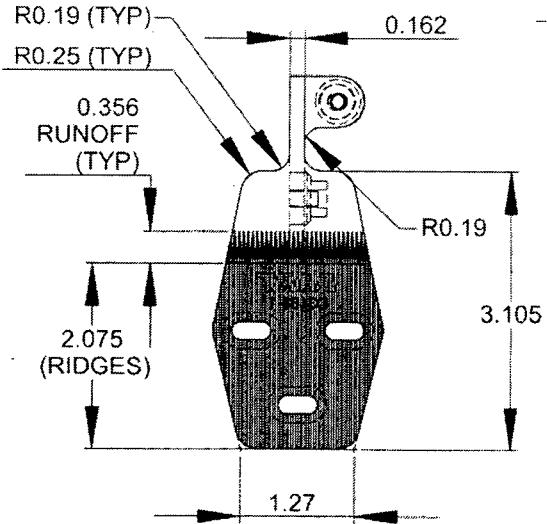
98352



COPY
REV
03

DESIGN	DRAWN BY	DART AEROSPACE LTD
		HAWKESBURY, ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO.
		D3183
DATE	04.02.17	TITLE
		BRACKET ASSEMBLY
		REV. C
		SHEET 2 OF 4
		SCALE
		1:2

DETACHED



**D3183-1 BRACKET SHOWN
D3183-2 BRACKET OPPOSITE**

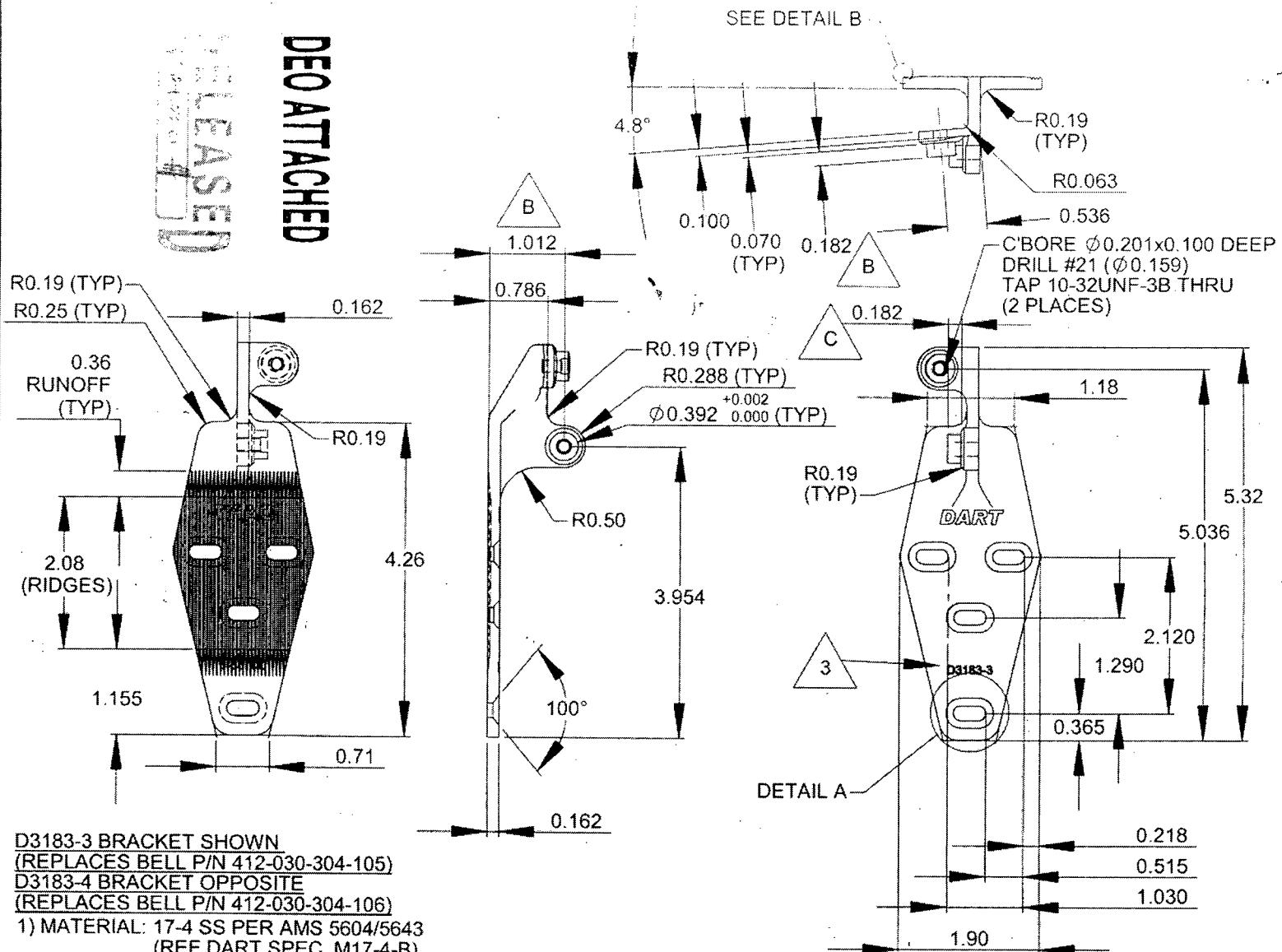
- 1) D3183-1 CAN BE MADE FROM D3183-3
D3183-2 CAN BE MADE FROM D3183-4
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643
(REF DART SPEC. M17-4-B)
MIN ULTIMATE STRENGTH = 150 ksi
MIN YIELD STRENGTH = 100 ksi
- 3) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 4) ENGRAVE DART P/N & LOGO AS SHOWN
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS
OTHERWISE NOTED
- 6) ALL DIMENSIONS ARE IN INCHES

98352

DART

DESIGN	DRAWN BY	DART AEROSPACE LTD
CHECKED	APPROVED	HAWKESBURY, ONTARIO, CANADA
		DRAWING NO.
		D3183
DATE	04.02.17	TITLE
		BRACKET ASSEMBLY
		SHEET 3 OF 4
		SCALE
		1:2

SEE DETAIL B



D3183-3 BRACKET SHOWN
(REPLACES BELL P/N 412-030-304-105)

D3183-4 BRACKET OPPOSITE
(REPLACES BELL P/N 412-030-304-106)

1) MATERIAL: 17-4 SS PER AMS 5604/5643
(REF DART SPEC. M17-4-B)

MIN ULTIMATE STRENGTH = 150 ksi
MIN YIELD STRENGTH = 100 ksi

2) BREAK ALL SHARP EDGES 0.005 TO 0.015

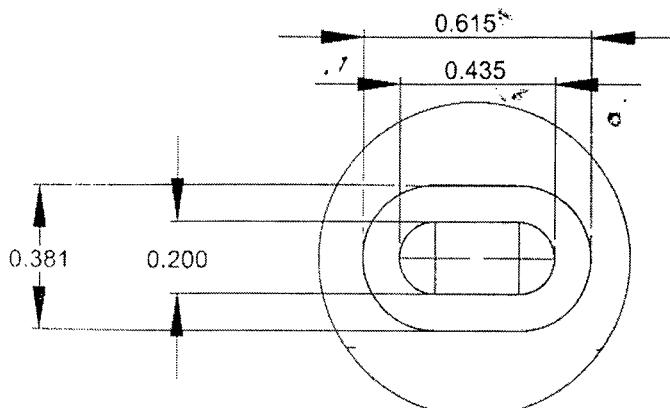
3) ENGRAVE DART P/N & LOGO AS SHOWN

4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

5) ALL DIMENSIONS ARE IN INCHES



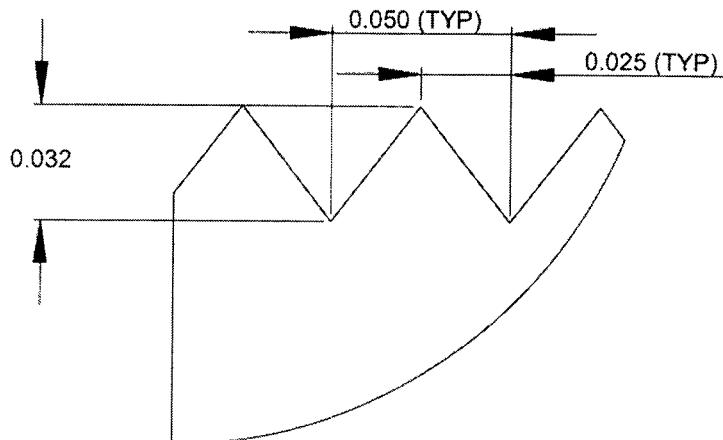
DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. C
		D3183	SHEET 4 OF 4
DATE	04.02.17	TITLE	SCALE
		BRACKET ASSEMBLY	1:1



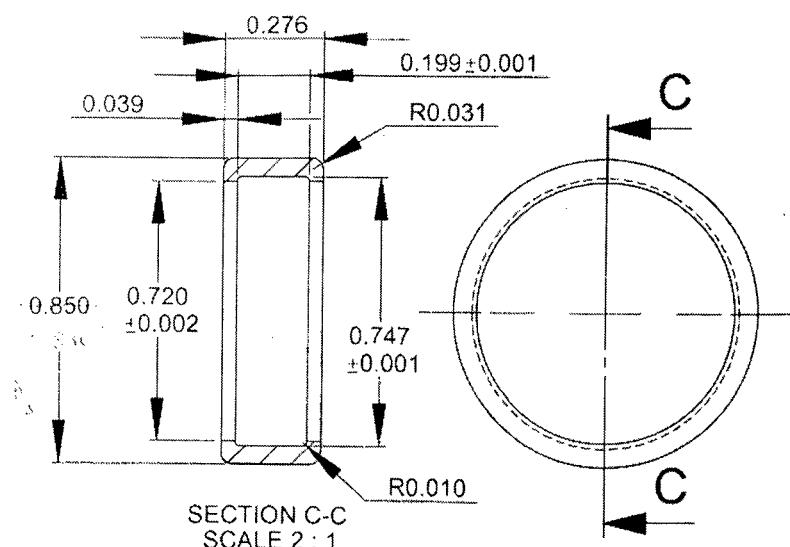
DETAIL A (2 : 1)

RELEASED
04-03-01

DEO ATTACHED



DETAIL B (20 : 1)



D3183-9 CAP

- 1) MATERIAL: DELRIN ROD, Ø1.00
(REF DART SPEC. M-DELRIN-R1.00)
- 2) TOLERANCES ARE PER DART QSI 018
UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES

D3183-045 BEARING ASSEMBLY

- 1) ASSEMBLE D3183-5 BEARING AND D3183-9 CAP

255866

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98352

DRAWING NO. D3183	TITLE BRACKET ASSEMBLY	REV.C1	DART AEROSPACE LTD ENGINEERING ORDER	D.E.O. NO. D3183-C1-1	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN <i>qp</i>	CHECKED <i>ls</i>		MFG. APPR. <i>AA</i>	APPROVED <i>MP</i>	DE APPR. <i>MP</i>	
DATE 10.05.14	DATE 10.06.30		DATE 10.06.30	DATE 10/06/30	DATE 10/06/30	

D3183-5 BEARING

ADD POSSIBLE SUPPLIER: KML P/N 6800-ZZ

BASIC LOAD RATING REQUIREMENT: Cr = 1720 N (386 lb) MIN [DYNAMIC]
 Cor = 840 N (188 lb) MIN [STATIC]

REF PAR 10-012

RELEASED
 2010-07-22
MP

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